

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P455492

Luminaire Tested: **GALN-SA6C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33902 lumens
Efficiency: N/A
Efficacy: 105.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

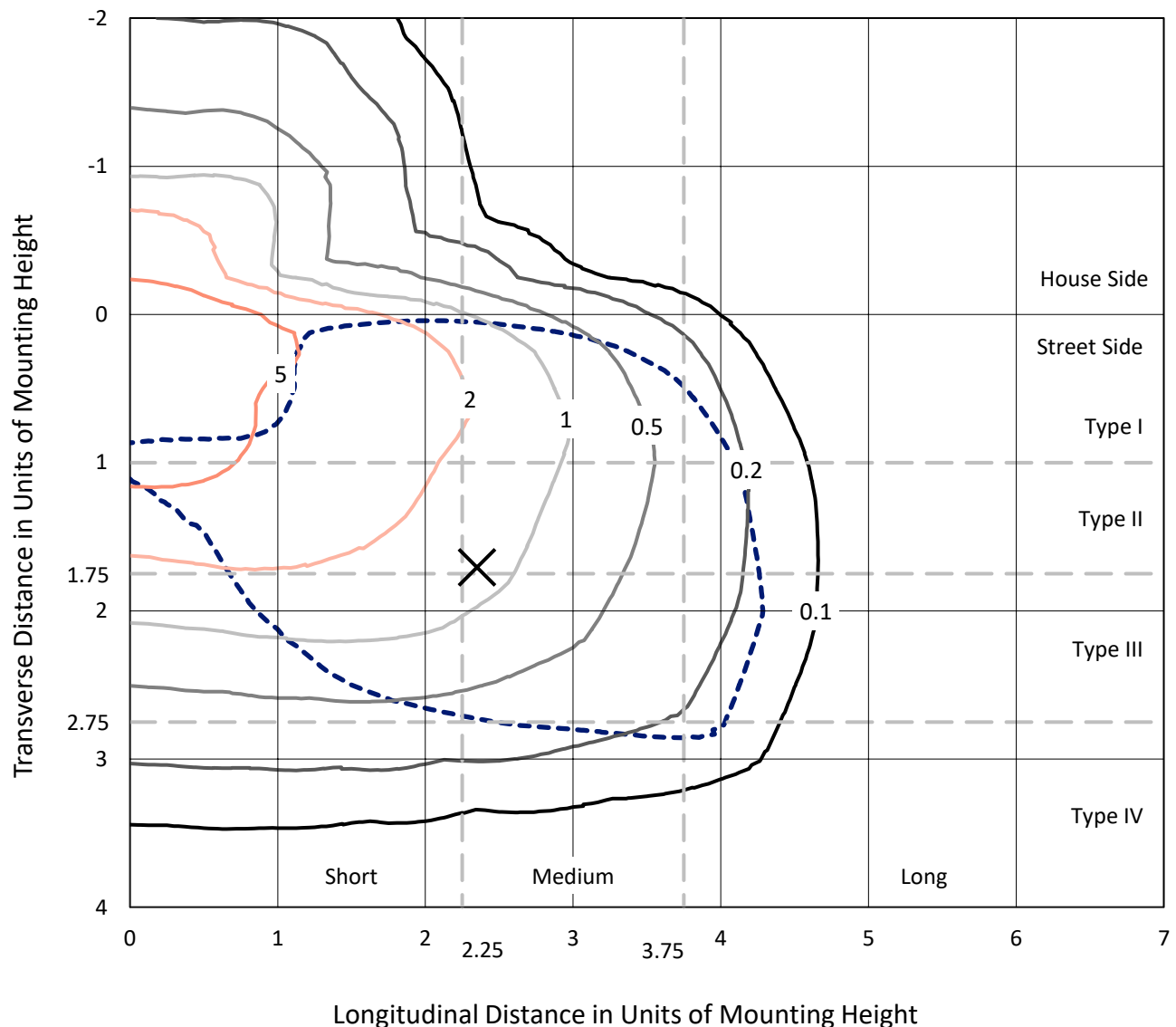


REPORT NUMBER: P455492

CATALOG NUMBER: GALN-SA6C-830-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

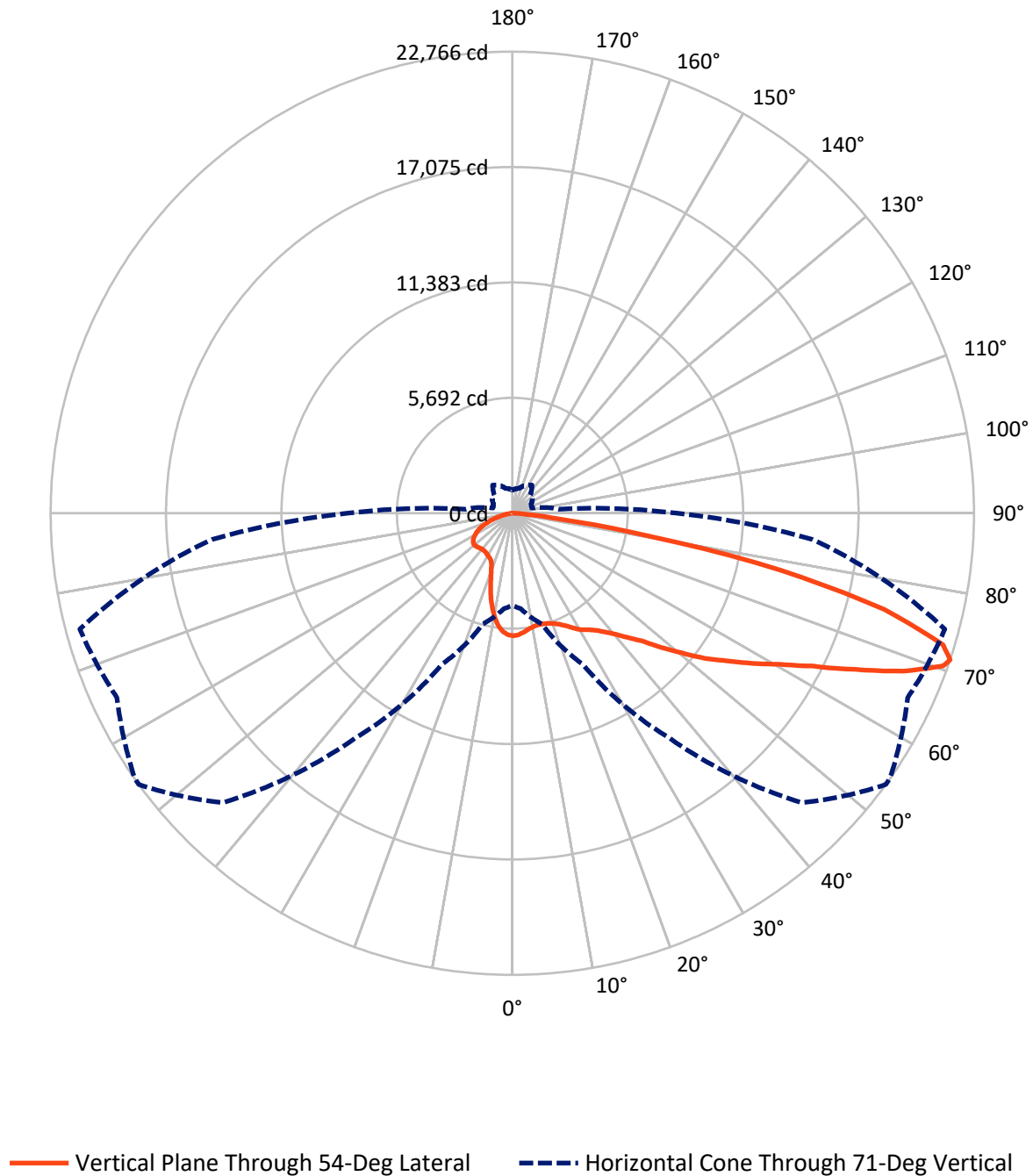


Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Medium - N/A

REPORT NUMBER: P455492

CATALOG NUMBER: GALN-SA6C-830-U-T3R

Luminous Intensity Polar Plot



REPORT NUMBER: P455492

CATALOG NUMBER: GALN-SA6C-830-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6120.8	0.0	6120.8
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	27781.2	0.0	27781.2
	% Fixture	81.9	0.0	81.9
Total	Lumens	33902.0	0.0	33902.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	539.0	1.6
10°-20°	1423.3	4.2
20°-30°	2369.8	7.0
30°-40°	3504.2	10.3
40°-50°	4935.8	14.6
50°-60°	6609.3	19.5
60°-70°	8330.5	24.6
70°-80°	5689.7	16.8
80°-90°	500.4	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	33902.0	100.0
0°-180°	33902.0	100.0

Coefficient of Utilization



REPORT NUMBER: P455492

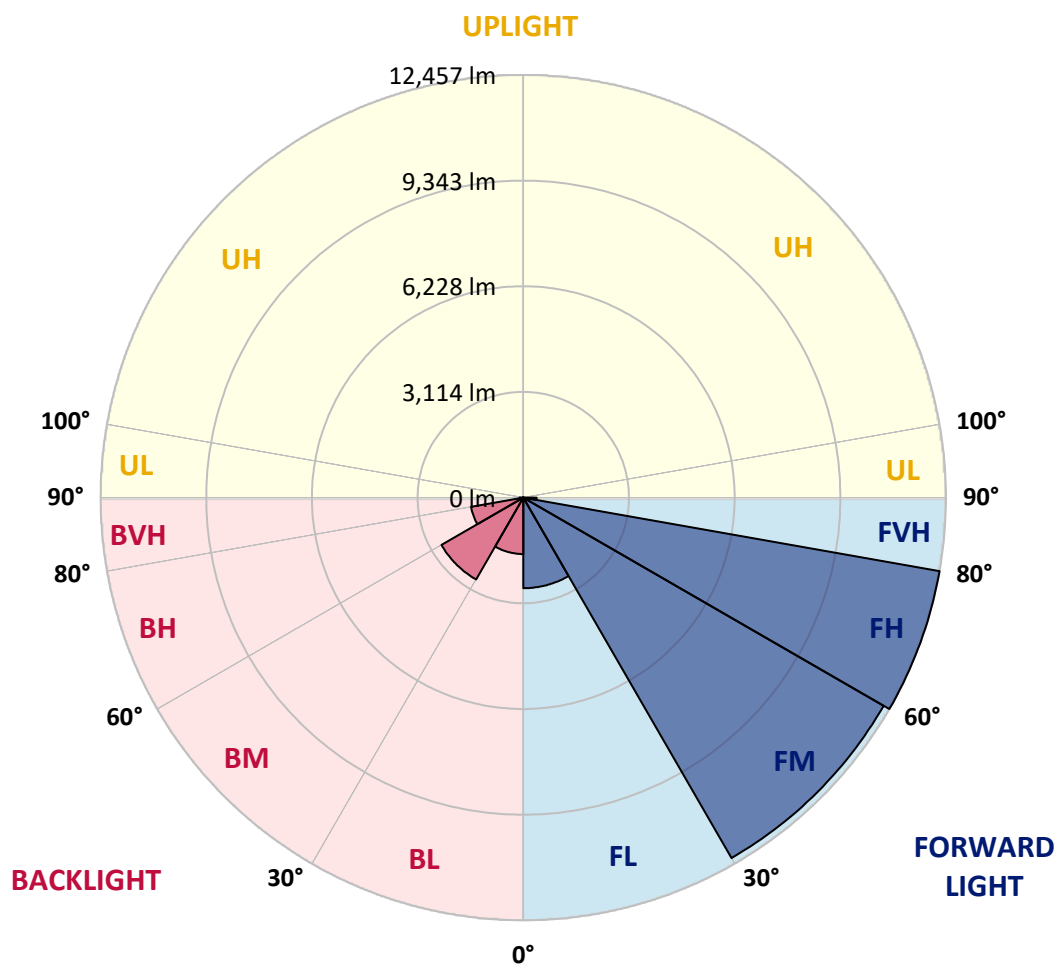
CATALOG NUMBER: GALN-SA6C-830-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2668.6	7.9			
FM	(30°-60°)	12264.5	36.2			
FH	(60°-80°)	12456.9	36.7			G5
FVH	(80°-90°)	391.1	1.2			G3/500
BL	(0°-30°)	1663.5	4.9	B3/2500		
BM	(30°-60°)	2784.8	8.2	B3/5000		
BH	(60°-80°)	1563.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	109.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





REPORT NUMBER: P455492

CATALOG NUMBER: GALN-SA6C-830-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6
2.5°	5843.5	5871.0	5878.3	5896.6	5935.1	5966.2	5997.3	5993.7	6037.6	6055.9	6072.4
5°	5583.5	5590.8	5618.3	5654.9	5722.7	5808.7	5893.0	5894.8	6002.8	6088.9	6131.0
7.5°	5393.0	5416.8	5435.2	5473.6	5545.0	5638.4	5772.1	5783.1	5975.4	6145.7	6235.4
10°	5268.5	5296.0	5316.1	5363.7	5435.2	5539.5	5684.2	5704.3	5955.2	6235.4	6392.9
12.5°	5155.0	5182.4	5200.8	5263.0	5356.4	5484.6	5647.6	5671.4	5962.6	6339.8	6565.0
15°	5224.6	5246.5	5239.2	5257.5	5319.8	5466.3	5662.2	5686.0	5990.0	6440.5	6735.3
17.5°	5534.0	5552.4	5491.9	5422.3	5393.0	5501.1	5708.0	5733.6	6045.0	6544.9	6909.3
20°	5990.0	6039.5	5907.6	5752.0	5611.0	5625.6	5803.2	5830.7	6121.9	6649.3	7086.9
22.5°	6583.3	6620.0	6458.8	6202.4	5942.4	5808.7	5946.1	5962.6	6237.2	6784.8	7281.1
25°	7281.1	7303.0	7079.6	6750.0	6374.6	6121.9	6142.0	6171.3	6427.7	6938.6	7453.2
27.5°	7958.6	8028.2	7770.0	7367.1	6872.7	6451.5	6411.2	6429.5	6634.6	7024.7	7572.2
30°	8762.5	8757.0	8484.2	8017.2	7383.6	6810.4	6665.8	6662.1	6746.3	7066.8	7658.3
32.5°	9403.5	9478.6	9211.2	8702.1	7967.8	7182.2	6841.6	6834.2	6832.4	7140.0	7786.5
35°	10132.3	10143.3	9897.9	9385.2	8599.6	7649.1	7086.9	7050.3	7008.2	7297.5	7960.4
37.5°	10784.2	10835.5	10610.3	10035.3	9220.3	8134.4	7423.9	7400.1	7271.9	7570.4	8238.8
40°	11293.3	11331.8	11196.3	10648.7	9832.0	8658.2	7852.4	7808.5	7652.8	8017.2	8610.5
42.5°	11460.0	11538.7	11591.8	11322.6	10535.2	9278.9	8379.8	8324.9	8205.8	8694.8	9039.1
45°	11472.8	11597.3	11877.5	11890.3	11242.0	10022.4	8995.1	8956.6	8947.5	9562.8	9641.5
47.5°	11375.7	11502.1	11972.7	12227.3	11872.0	10773.2	9883.3	9822.8	9828.3	10635.9	10317.3
50°	11141.3	11291.5	11862.8	12443.3	12364.6	11553.4	10820.9	10800.7	10914.3	11861.0	11018.6
52.5°	10700.0	10881.3	11749.3	12578.9	12730.9	12225.4	11886.6	11829.9	12117.4	13190.5	11785.9
55°	9478.6	9751.4	11333.6	12653.9	13078.8	12868.2	12846.2	12948.8	13329.7	14640.8	12630.1
57.5°	8841.3	9046.4	10430.8	12666.8	13518.3	13615.3	13966.9	13992.6	14659.2	16180.9	13584.2
60°	8493.3	8674.6	9936.4	12582.5	14131.8	14540.1	15113.3	15204.9	15957.5	17849.2	14573.1
62.5°	8189.4	8345.0	9639.7	12291.4	14824.0	15911.7	16598.5	16642.4	17431.7	19691.4	15549.1
65°	7473.3	7651.0	9042.7	12000.2	15421.0	17625.8	18568.9	18517.6	19001.1	21281.0	16160.8
67.5°	6508.3	6733.5	7927.5	10994.8	15715.8	19499.2	20788.4	20724.3	20550.3	22322.9	16336.6
70°	5275.8	5396.7	6500.9	9257.0	14538.3	20482.5	22540.9	22473.1	21509.9	22460.3	15505.2
71°	4539.7	4728.3	5660.4	8222.3	13558.6	20182.2	22766.1	22747.8	21511.7	22081.2	14878.9
72.5°	3543.5	3658.8	4482.9	6370.9	11524.1	18475.5	22209.4	22279.0	21044.7	21028.2	13587.9
75°	2241.5	2292.7	2812.8	3750.4	6323.3	13084.3	18958.9	19147.6	18686.1	17211.9	10104.8
77.5°	1302.0	1367.9	1684.8	2210.3	2732.2	7101.6	13565.9	13771.0	12983.6	9476.7	4136.8
80°	758.1	831.4	1109.7	1283.7	1254.4	2635.2	6907.5	7257.2	5621.9	2393.4	1161.0
82.5°	421.2	470.6	780.1	781.9	668.4	860.7	2173.7	2274.4	1604.2	965.1	474.3
85°	305.8	346.1	503.6	456.0	320.5	369.9	756.3	792.9	648.3	406.5	153.8
87.5°	108.0	153.8	276.5	219.8	87.9	76.9	217.9	177.6	164.8	113.5	34.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P455492

CATALOG NUMBER: GALN-SA6C-830-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6	6048.6
2.5°	6081.6	6085.2	6066.9	6034.0	6001.0	5958.9	5911.3	5874.7	5858.2	5856.3	5854.5
5°	6147.5	6156.7	6087.1	5984.5	5871.0	5731.8	5612.8	5477.3	5442.5	5387.5	5404.0
7.5°	6253.7	6248.2	6110.9	5893.0	5627.4	5332.6	5083.6	4938.9	4788.7	4746.6	4748.4
10°	6405.7	6370.9	6110.9	5706.2	5263.0	4825.3	4477.4	4257.7	4138.6	4039.7	4003.1
12.5°	6566.9	6479.0	6052.3	5444.3	4794.2	4257.7	3884.1	3587.4	3510.5	3429.9	3431.8
15°	6720.7	6574.2	5936.9	5076.2	4288.8	3651.5	3288.9	3111.3	3087.5	3096.6	3094.8
17.5°	6859.9	6641.9	5761.1	4666.0	3699.1	3131.4	2939.2	2952.0	3016.1	3061.9	3067.3
20°	7000.9	6682.2	5499.2	4116.7	3142.4	2816.5	2823.8	2924.5	3021.6	3083.8	3093.0
22.5°	7134.6	6700.5	5191.6	3585.6	2739.6	2682.8	2790.8	2898.9	2994.1	3054.5	3063.7
25°	7222.5	6658.4	4755.8	3030.7	2541.8	2635.2	2748.7	2840.3	2920.8	2983.1	2997.8
27.5°	7246.3	6522.9	4215.5	2582.1	2450.2	2589.4	2693.8	2761.5	2823.8	2882.4	2893.4
30°	7233.4	6323.3	3622.2	2318.4	2397.1	2536.3	2616.9	2666.3	2741.4	2787.2	2796.3
32.5°	7213.3	6090.7	3003.3	2177.4	2353.2	2486.8	2534.5	2578.4	2576.6	2558.3	2571.1
35°	7220.6	5812.4	2501.5	2093.1	2314.7	2450.2	2490.5	2435.6	2278.1	2270.8	2263.4
37.5°	7259.1	5537.7	2137.1	2034.5	2294.6	2444.7	2466.7	2214.0	2074.8	2010.7	1994.2
40°	7358.0	5217.2	1897.2	1990.6	2292.7	2486.8	2358.7	2102.3	1834.9	1710.4	1701.2
42.5°	7489.8	4902.3	1750.7	1963.1	2314.7	2550.9	2314.7	1944.8	1653.6	1580.4	1569.4
45°	7685.8	4541.5	1670.1	1950.3	2347.7	2574.7	2300.1	1829.4	1580.4	1521.8	1521.8
47.5°	7907.3	4197.2	1626.2	1941.1	2389.8	2558.3	2170.0	1792.8	1545.6	1552.9	1587.7
50°	8127.1	3898.7	1593.2	1921.0	2426.4	2549.1	2116.9	1791.0	1554.7	1648.1	1710.4
52.5°	8381.6	3688.1	1552.9	1888.0	2426.4	2490.5	2100.4	1827.6	1580.4	1607.8	1635.3
55°	8689.3	3622.2	1501.6	1816.6	2382.5	2344.0	2091.3	1880.7	1598.7	1534.6	1545.6
57.5°	9095.8	3728.4	1452.2	1726.9	2281.7	2192.0	2087.6	1895.3	1556.6	1503.5	1492.5
60°	9568.3	3939.0	1437.5	1635.3	2144.4	2062.0	2065.7	1853.2	1498.0	1443.0	1452.2
62.5°	9899.7	4065.4	1428.4	1565.7	1994.2	1919.2	2012.5	1802.0	1472.3	1424.7	1433.9
65°	9899.7	3911.6	1344.1	1459.5	1800.1	1747.0	1948.5	1737.9	1439.4	1384.4	1375.3
67.5°	9524.3	3462.9	1216.0	1300.2	1585.9	1551.1	1858.7	1660.9	1389.9	1347.8	1325.8
70°	8546.4	2626.0	1054.8	1113.4	1314.8	1346.0	1743.4	1556.6	1307.5	1256.2	1223.3
71°	8116.1	2287.2	987.0	1018.2	1210.5	1256.2	1688.4	1512.6	1270.9	1197.6	1139.0
72.5°	7286.5	1926.5	884.5	897.3	1034.7	1117.1	1573.0	1428.4	1201.3	1096.9	1031.0
75°	5535.9	1406.4	712.4	705.0	765.5	886.3	1331.3	1272.7	1053.0	912.0	873.5
77.5°	2391.6	765.5	532.9	538.4	520.1	672.1	1047.5	1093.3	902.8	741.7	706.9
80°	725.2	441.3	364.4	371.7	347.9	450.5	738.0	857.0	725.2	576.8	529.2
82.5°	371.7	263.7	249.1	245.4	221.6	254.5	446.8	586.0	518.2	360.8	318.6
85°	161.2	141.0	122.7	119.0	104.4	91.6	159.3	293.0	274.7	201.4	192.3
87.5°	40.3	36.6	23.8	22.0	12.8	1.8	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)